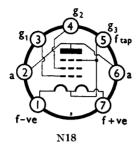
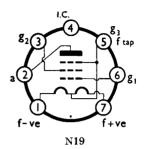


MINIATURE OUTPUT PENTODES 1.4/2.8V DIRECTLY HEATED

OCTOBER, 1951

BASE CONNECTIONS AND VALVE DIMENSIONS





View from underside of bases.

Base: B7G

Bulb: Tubular.

Overall length: 49---55 Seated length: 43-49

Max. diameter:

mm. 19 mm.

mm.

RATING

	Series	Parallel		
$V_{\mathbf{f}}$	2.8	1.4	\mathbf{v}	
I_f	0.05 approx.	0·1 approx.	Α	
V_a	90 max.	90 max.	\mathbf{v}	
V_{g2}	90 max.	90 max.	v	
*I _k	6 max.	6 max.	mA	

^{*}For each 1.4 volt filament section.

CAPACITANCES (of cold unscreened valve)

caall	5.3	pF	Cglall	5.6	pF	$c_{\mathbf{a}-\mathbf{gl}}$	0.35	pF
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TYPICAL OPERATION

Pentode connection:

	Series	Para	ıllel	
V_a	90	85	90	V
V_{g2}	90	85	90	V
V_{g1}	-4.5	-5	-4.5	\mathbf{V}
vin (pk)	4.5	5	4.5	V
I _a (o)	7.7	6.9	9.5	mA
Ig2 (o)	1.7	1.5	2.1	mA
ra	0.12	0.12	0.1	MΩ
gm	2	1.9	2.1	mA/V
Ra	10	10	10	$k\Omega$
D	7	10	7	%
Pout (max. sig.)	240	250	270	$\mathbf{m}\mathbf{W}$

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FILAMENT OPERATION

For parallel operation, pins 1 and 7 should be positive and pin 5 negative.

When operating the filament from a mains supply, the voltage should be adjusted to 1.3 per filament section or the current to 47.5 mA mean. Under certain conditions, particularly when series operated, a suitable shunt resistor will be required.

SCREENING

No internal or external screening is fitted to the valve.

MOUNTING

Any position.

RETAINING

A retaining device should be used.

VENTILATION

No special precautions.

MICROPHONY

Although this is of a very low order, equipment should be designed to minimise microphony.

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